

#### ABSTRACT OF THE DISCLOSURE

A tyre for a vehicle wheel includes a carcass structure, a belt structure, a tread band, and sidewalls. The carcass structure includes at least one first and second carcass ply and a pair of annular reinforcing structures. The carcass plies are formed of strip sections extending in a substantially U-shaped conformation, including at least two parallel thread elements at least partly coated with elastomer material. The at least one first (second) carcass ply includes a first (third) and second (fourth) series of strip sections arranged in mutually-alternating sequence along a circumferential extension of the carcass structure. The annular reinforcing structures include first and second primary portions. The first (second) primary portion includes an axially-inner side turned towards end flaps of the strip sections of the first (third) series and an axially-outer side turned towards end flaps of the strip sections of the second (fourth) series.

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